**Pipeline Group Factual Report**

# ATTACHMENT 3

**PHMSA Accident Report HL20070334**

**Carmichael, Mississippi**
**DCA 08 MP 001**

NOTICE: This report is required by 49 CFR Part 195. Failure to report can result in a civil penalty not to exceed $25,000 for each violation for each day that such violation persists except that the maximum civil penalty shall not exceed $5000,000 as provided in 49 USC 60122

Form Approved
OMB No. 2137-0047

U.S. Department of Transportaion
Research and Special Programs
Administration

# ACCIDENT REPORT - HAZARDOUS LIQUID PIPELINE SYSTEMS

Report Date NOV 30,2007

No. 20070334 -- 6525
(DOT Use Only)

## INSTRUCTIONS

***Important:*** ***Please read the separate instructions for completing this form before you begin. They clarify the information requested and provide specific examples. If you do not have a copy of the instructions you can obtain one from the Office Of Pipeline Safety Web Page at http://ops.dot.gov***

## PART A - GENERAL REPORT INFORMATION

check: ☒ Original Report ☐ Supplemental Report ☐ Final Report

1. a. Operator's OPS 5-digit Identification Number (if know) / 3445 /
2. b. If Operator does not own the pipeline, enter Owner's OPS 5-digit Identification Number (if know) /_____/
   c. Name of Operator DIXIE PIPELINE
   d. Operator street address 1080 HOLCOMB BRIDGE ROAD, BLDG 100, STE 325
   e. Operator address ROSWELL FULTON GA 30076
   City, County, State and ZIP Code

**IMPORTANT: IF THE SPILL IS SMALL, THAT IS, THE AMOUNT IS AT LEAST 5 GALLONS BUT IS LESS THAN 5 BARRELS, COMPLETE THIS PAGE ONLY, UNLESS THE SPILL IS TO WATER AS DESCRIBED IN 49 CFR §195.52(A)(4) OR IS OTHERWISE REPORTABLE UNDER §195.50 AS REVISED IN CY 2001.**

2. Time and date of the accident

/ 1054 / / 11 / / 01 / /2007 /
*hr.* *month* *day* *year*

3. Location of accident
*(If offshore, do not complete a through d See Part C.1)*

a. Latitude: N31 55.23 Longitude: W88 31.53
*(If not available, see instructions for how to provide specific location)*

b. CRANDALL CLARKE
*City and County or Parish*

c. MS 39367
*State and Zip Code*

425.98

d. Mile post/valve station ● or Survey Station no. ○
*(whichever gives more accurate location)*

425.98

4. Telephone report

/ 853298 / / 11 / / 01 / / 2007 /
*NRC Report Number* *month* *day* *year*

5. Losses (Estimated)

**Public/Community Losses reimbursed by operator:**

| | |
|---|---|
| Public/private property damage | $ 1,000,000 |
| Cost of emergency response phase | $ 8,210 |
| Cost of environmental remediation | $ 0 |
| Other Costs | $ 0 |
| (describe) | |

**Operator Losses:**

| | |
|---|---|
| Value of product lost | $ 693,000 |
| Value of operator property damage | $ 436,976 |
| Other Costs | $ 0 |
| (describe) | |
| **Total Costs:** | $ 2,138,186 |

6. Commodity Spilled ● Yes ○ No
(If Yes, complete Parts a through c where applicable)

a. Name of commodity spilled PROPANE

b. Classification of commodity spilled:
- ● HVLs/other flammable or toxic fluid which is a gas at ambient conditions
- ○ $CO_2$ or other non-flammable, non-toxic fluid which is a gas at ambient conditons
- ○ Gasoline, diesel, fuel oil or other petroleum product which is a liquid at ambient conditions
- ○ Crude oil

**c. Estimated amount of commodity involved :**
- ● **Barrels**
- ○ **Gallons (check only if spill is less than one barrel)**

**Amounts :**
**Spilled :** 11,000
**Recovered:** _____

## CAUSES FOR SMALL SPILLS ONLY *(5 gallons to under 5 barrels)* :

**(For large spills [5 barrels or greater] see Part H)**

- ○ **Corrosion**
- ○ **Natural Forces**
- ○ **Excavation Damage**
- ○ **Other Ouside Force Damage**
- ○ **Materal and/or Weld Failures**
- ○ **Equipment**
- ○ **Incorrect Operation**
- ○ **Other**

## PART B - PREPARER AND AUTHORIZED SIGNATURE

JOEL E. KOHLER
(type or print) Preparer's Name and Title

(713) 381-4830
Area Code and Telephone Number

JKOHLER@EPROD.COM
Preparer's E-mail Address

(713) 381-8790
Area Code and Facsimile Number

Authorized Signature | (type or print) Name and Title | Date | Area Cod and Telephone Number

## PART C - ORIGIN OF THE ACCIDENT *(Check all that apply)*

1. Additional location information
   a. Line segment name or ID **12" DIXIE PIPELINE**
   b. Accident on Federal land other than Outer Continental Shelf ○ Yes ● No
   c. Is pipeline interstate? ● Yes ○ No

Offshore: ○ Yes ● No (*comple d if offshore*)
d. Area _____ Block # _____
State / / or Outer Continental Shelf ☐

2. Location of system involved (check all that apply)
   ☐ Operator's Property
   ☒ Pipeline Right of Way
   ☐ High Consequence Area (HCA)?
   Describe HCA _____

3. Part of system involved in accident
   ○ Above Ground Storage Tank
   ○ Cavern or other below ground storage facility
   ○ Pump/meter station; terminal/tank farm piping and equipment, including sumps
   ○ Other Specify: _____

● Onshore **pipeline**, including valve sites
○ Offshore **pipeline**, including platforms

*if failure occurred on **pipeline**, complete items a - g:*

4. Failure occurred on
   ○ Body of Pipe ● Pipe Seam ○ Scraper Trap
   ○ Pump ○ Sump ○ Joint
   ○ Component ○ Valve ○ Metering Facility
   ○ Repair Sleeve ○ Welded Fitting ○ Bolted Fitting
   ○ Girth Weld
   ○ Other *(specify)* _____

Year the component that failed was installed: / **1961** /

5. Maximum operating pressure (MOP)
   a. Estimated pressure at point and time of accident: **1,405** *PSIG*
   b. MOP at time of accident: **1,448** *PSIG*
   c. Did an overpressurization occur relating to the accident? ○ Yes ● No

a. Type of leak or rupture
   ○ Leak: ○ Pinhole ○ Connection Failure *(complete sec. H5)* ○ Puncture, diameter *(inches)* _____
   ● Rupture: ○ Circumferential - Separation ● Longitudinal - Tear/Crack, length *(inches)* **636** Propagation Length, total, both sides *(feet)* **53**
   ○ N/A
   ○ Other _____

b. Type of block valve used for isolation of immediate section:
   Upstream: ☐ Manual ☐ Automatic ☒ Remote Control ☐ Check Valve
   Downstream: ☐ Manual ☐ Automatic ☒ Remote Control ☐ Check Valve

c. Length of segment isolated **63,360** ft
d. Distance between valves **63,360** ft
e. Is segment configured for internal inspection tools? ● Yes ○ No
f. Had there been an in-line inspection device run at the point of failure? ● Yes ○ No ○ Don't Know
   ○ Not Possible due to physical constraints in the system
g. If Yes, type of device run *(check all that apply)*
   ☒ High Resolution Magnetic Flux tool Year run: **2006**
   ☐ Low Resolution Magnetic Flux tool Year run: _____
   ☒ UT tool Year r **2005**
   ☒ Geometry tool Year run: **2006**
   ☐ Caliper tool Year run: _____
   ☐ Crack tool Year r _____
   ☐ Hard Spot tool Year ru _____
   ☐ Other tool Year r _____

## PART D - MATERIAL SPECIFICATION

1. Nominal pipe size *(NPS)* / **12** / in.
2. Wall thickness **.25** / in.
3. Specification **API 5L** SMYS / **52000** /
4. Seam type **ERW**
5. valve type _____
6. *Manufactured by* **LONE STAR** *in year* / **1961** /

## PART E - ENVIRONMENT

1. *Area of accident*
   ○ Under pavement ○ In open ditch
   ● Underground ○ Above ground
   ○ Inside/under building ○ Under water
   ○ Other _____

2. *Depth of cover:* **41** *inches*

## PART F - CONSEQUENCES

**1. Consequences *(check and complete all that apply)***

| a. | Fatalities | Injuries |
|---|---|---|
| Number of operator employees: | **0** | **0** |
| Contractor employees working for operator: | **0** | **0** |
| General public: | **2** | **8** |
| **Totals:** | **2** | **8** |

b. Was pipeline/segment shutdown due to leak? ● Yes ○ No
If Yes, how long? **10** days **19** hours **0** minutes

c. Product ignited ● Yes ○ No d. Explosion ● Yes ○ No
e. ☒ **Evacuation** *(general public only)* / **250** / people
Reason for Evacuation:
○ Precautionary by company
● Evacuation required or initiated by public official

f. Elapsed time until area was made safe:
/ **48** / hr. / / min.

**2. Environmental Impact**
a. Wildlife Impact: Fish/aquatic ○ Yes ● No; Bird ○ Yes ● No; Terrestrial ○ Yes ● No
b. Soil Contamination ○ Yes ● No
If Yes, estimated number of cubic yards: _____
c. Long term impact assessment performed: ● Yes ○ No
d. Anticipated remediation ● Yes ○ No
If Yes, Check all that apply: ☐ Surface water ☐ Groundwater ☒ Soil ☒ Vegetation ☐ Wildlife

e. Water Contamination: ○ Yes ● No *(If Yes, provide the following)*
Amount in water _____ barrels
Ocean/Seawater ○ No ○ Yes
Surface ○ No ○ Yes
Groundwater ○ No ○ Yes
Drinking water ○ No ○ Yes *(If Yes, check below.)* ○ Private well ○ Public water intake

## PART G - LEAK DETECTION INFORMATION

1. Computer based leak detection capability in place? ○ Yes ● No
2. Was the release intially detected by? (check one):
   - ○ CPM/SCADA-based system with leak detection
   - ○ Static shut-in test or other pressure or leak test
   - ○ Local operating personnel, procedures or equipment
   - ● Remote operating personnel, including controllers
   - ○ Air patrol or ground surveillance
   - ○ A third party ○ Other (specify) _____
3. Estimated leak duration days_____ hours _____

## PART H - APPARENT CAUSE

**Important:** There are 25 numbered causes in this Part H. Check the box corresponding to the primary cause of the accident. Check one circle in each of the supplemental categories corresponding to the cause you indicate. Secc the instructions for guidance.

### H1 - CORROSION

1. ○ External Corrosion
2. ○ Internal Corrosion

(Complete items a - e where applicable.)

a. Pipe Coating
- ○ Bare
- ○ Coated

b. Visual Examination
- ○ Localized Pitting
- ○ General Corrosion
- ○ Other _____

c. Cause of Corrosion
- ○ Galvanic ○ Atmospheric
- ○ Stray Current ○ Microbiological
- ○ Cathodic Protection Disrupted
- ○ Stress Corrosion Cracking
- ○ Selective Seam Corrosion
- ○ Other _____

d. Was corroded part of pipeline considered to be under cathodic protection prior to discovering accident?
○ No ○ Yes, Year Protection Started: /_____/

e. Was pipe previously damaged in the area of corrosion?
○ No ○ Yes => Estimated time prior to accident: /___/ years /___/ months Unknown ☐

### H2 - NATURAL FORCES

3. ○ Earth Movement => ○ Earthquake ○ Subsidence ○ Landslide ○ Other _____
4. ○ Lightning
5. ○ Heavy Rains/Floods => ○ Washouts ○ Flotation ○ Mudslide ○ Scouring ○ Other _____
6. ○ Temperature => ○ Thermal stress ○ Frost heave ○ Frozen components ○ Other _____
7. ○ High Winds

### H3 - EXCAVATION DAMAGE

8. ○ Operator Excavation Damage (including their contractors/Not Third Party)
9. ○ Third Party *(complete a-f)*

a. Excavator group
- ○ General Public ○ Government ○ Excavator other than Operator/subcontractor

b. Type:
- ○ Road Work ○ Pipeline ○ Water ○ Electric ○ Sewer ○ Phone/Cable
- ○ Landowner-not farming related ○ Farming ○ Raildroad
- ○ Other liquid or gas transmission pipeline-operator or their contractor
- ○ Nautical Operations ○ Other _____

c. Excavation was: ○ Open Trench ○ Sub-strata (boring, directional drilling, etc...)

d. Excavation was an ongoing activity (Month or longer) ○ Yes ○ No If Yes, Date of last contact /___/

e. Did operator get prior notification of excavation activity?
- ○ Yes; Date received: /___/ mo. /_____/ day /____/ yr. ○ No

Notification received from: ○ One Call System ○ Excavator ○ Contractor ○ Landowner

f. Was pipeline marked as result of location request for excavation? ○ No ○ Yes (If Yes, check applicable items i - iv)
- i. Temporary markings: ○ Flags ○ Stakes ○ Paint
- ii. Permanent markings: ○ Yes ○ No
- iii. Marks were (check one) : ○ Accurate ○ Not Accurate
- iv. Were marks made within required time? ○ Yes ○ No

### H4 - OTHER OUTSIDE FORCE DAMAGE

10. ○ Fire/Explosion as primary cause of failure => Fire/Explosion cause: ○ Man Made ○ Natural
11. ○ Car, truck or other vehicle not relating to excavation activity damaging pipe
12. ○ Rupture of Previously Damaged Pipe
13. ○ Vandalism

## H5 - MATERIAL AND/OR WELD FAILURES

**Material**

14. O Body of Pipe => O Dent O Gouge O Bend O Arc Burn O Other _____

15. O Component => O Valve O Fitting O Vessel O Extruded Outlet O Other _____

16. O Joint => O Gasket O O-Ring O Threads O Other _____

**Weld**

17. O Butt => O Pipe O Fabrication O Other _____

18. O Fillet => O Branch O Hot Tap O Fitting O Repair Sleeve O Other _____

19. O Pipe Seam => O LF ERW O DSAW O Seamless O Flash Weld
O HF ERW O SAW O Spiral O Other _____

*Complete a-g if you indicate* **any** *cause in part H5.*

a. Type of failure:
O Construction Defect => O Poor Workmanship O Procedure not followed O Poor Construction Procedures
O Material Defect

b. Was failure due to pipe damage sustained in transportation to the construction or fabrication site? O Yes O No

c. Was part which leaked pressure tested before accident occurred? O Yes, complete d-g O No

d. Date of test: /_____/ yr. /_____/ mo. /_____/ day

e. Test medium: O Water O Inert Gas O Other _____

f. Time held at test pressure: /_____/ hr.

g. Estimated test pressure at point of accident: _____ *PSIG*

## H6 - EQUIPMENT

20. O Malfunction of Control/Relief Equipment => O Control valve O Instrumentation O SCADA O Communications
O Block valve O Relief valve O Power failure
O Other _____

21. O Threads Stripped Broken Pipe Coupling => O Nipples O Valve Threads O Dresser Couplings
O Other _____

22. O Seal Failure => O Gasket O O-Ring O Seal/Pump Packing
O Other _____

## H7 - INCORRECT OPERATION

23. O Incorrect Operation

a. Type O Inadequate Procedures O Inadequate Safety Practices O Failure to Follow Procedures
O Other _____

b. Number of employees involved who failed a post-accident test: drug test: /_____/ alcohol test /_____/

## H8 - OTHER

24. O Miscellaneous, *describe:* _____

25. ● Unknown
O Investigation Complete ● Still Under Investigation (*Submit a supplemental report when investigation is complete*)

## PART I - NARRATIVE DESCRIPTION OF FACTORS CONTRIBUTING TO THE EVENT

(Attach additional sheets as necessary)

**ADDITIONAL FOLLOW-UP CALL WAS MADE TO THE NRC TO REVISE THE RELEASE VOLUME - NRC # 853579.**

**RELEASE INVESTIGATION IS ONGOING.**

NOTICE: This report is required by 49 CFR Part 195. Failure to report can result in a civil penalty not to exceed $25,000 for each violation for each day that such violation persists except that the maximum civil penalty shall not exceed $500,000 as provided in 49 USC 60122

Form Approved
OMB No. 2137-0047

Print

U.S. Department of Transportation
Research and Special Programs Administration

# ACCIDENT REPORT – HAZARDOUS LIQUID PIPELINE SYSTEMS

Report Date Nov 30,2007

No. 20070334 -- 6954
(DOT Use Only)

## INSTRUCTIONS

***Important:*** *Please read the separate instructions for completing this form before you begin. They clarify the information requested and provide specific examples. If you do not have a copy of the instructions, you can obtain one from the Office Of Pipeline Safety Web Page at http://ops.dot.gov.*

## PART A – GENERAL REPORT INFORMATION

Check one or more boxes as appropriate:
☐ Original Report ☒ Supplemental Report ☐ Final Report

1. a. Operator's OPS 5-digit Identification Number (if known) / 3445 /
2. b. If Operator does not own the pipeline, enter Owner's OPS 5-digit Identification Number (if known) /_____/
   c. Name of Operator DIXIE PIPELINE
   d. Operator street address 1080 HOLCOMB BRIDGE ROAD, BLDG 100, STE 325
   e. Operator address ROSWELL FULTON GA 30076
   City, County, State and Zip Code

**IMPORTANT: IF THE SPILL IS SMALL, THAT IS, THE AMOUNT IS AT LEAST 5 GALLONS BUT IS LESS THAN 5 BARRELS, COMPLETE THIS PAGE ONLY, UNLESS THE SPILL IS TO WATER AS DESCRIBED IN 49 CFR §195.52(A)(4) OR IS OTHERWISE REPORTABLE UNDER §195.50 AS REVISED IN CY 2001.**

2. Time and date of the accident

| / 1054 / | / 11 / | / 01 / | / 2007 / |
|---|---|---|---|
| hr. | month | day | year |

3. Location of accident
*(If offshore, do not complete a through d. See Part C.1)*

a. Latitude: N31 55.23 Longitude: W88 31.53
*(if not available, see instructions for how to provide specific location)*

b. CRANDALL CLARKE
City, and County or Parish

c. MS 39367
State and Zip Code

d. Mile post/valve station ● or survey station no. ○
(whichever gives more accurate location)

425.98

4. Telephone report

| / 853298 / | / 11 / | / 01 / | / 2007 / |
|---|---|---|---|
| NRC Report Number | month | day | year |

5. Losses *(Estimated)*

**Public/Community Losses reimbursed by operator:**

| | |
|---|---|
| Public/private property damage | $ 1000000 |
| Cost of emergency response phase | $ 419873 |
| Cost of environmental remediation | $ 0 |
| Other Costs | $ 5000 |
| (describe) | LAB AND HYDROTEST DISCHARGE |

**Operator Losses:**

| | |
|---|---|
| Value of product lost | $ 645939 |
| Value of operator property damage | $ 1306435 |
| Other Costs | $ 0 |
| (describe) | |
| **Total Costs** | $ 3377247 |

6. Commodity Spilled ●Yes ○No
(If Yes, complete Parts a through c where applicable)

a. Name of commodity spilled PROPANE

b. Classification of commodity spilled:
●HVLs /other flammable or toxic fluid which is a gas at ambient conditions
○$CO_2$ or other non-flammable, non-toxic fluid which is a gas at ambient conditions
○Gasoline, diesel, fuel oil or other petroleum product which is a liquid at ambient conditions
○Crude oil

**c. Estimated amount of commodity involved :**
● **Barrels**
○ **Gallons (check only if spill is less than one barrel)**

**Amounts:**
**Spilled :** 10253
**Recovered:** 0

**CAUSES FOR SMALL SPILLS ONLY (5 gallons to under 5 barrels) :** ***(For large spills [5 barrels or greater] see Part H)***

○ **Corrosion** ○ **Natural Forces** ○ **Excavation Damage** ○ **Other Outside Force Damage**
○ **Material and/or Weld Failures** ○ **Equipment** ○ **Incorrect Operation** ○ **Other**

## PART B – PREPARER AND AUTHORIZED SIGNATURE

JOEL E. KOHLER
(type or print) Preparer's Name and Title

(713) 381-4830
Area Code and Telephone Number

JKOHLER@EPROD.COM
Preparer's E-mail Address

(713) 381-8790
Area Code and Facsimile Number

Authorized Signature | (type or print) Name and Title | Date | Area Code and Telephone Number





***OPS Data Facsimile***

## PART C – ORIGIN OF THE ACCIDENT (Check all that apply)

1. Additional location information
   a. Line segment name or ID 12
   b. Accident on Federal land other than Outer Continental Shelf ◡ Yes ● No
   c. Is pipeline interstate? ● Yes ◡ No

Offshore: ◡ Yes ● No *(complete d if offshore)*
d. Area _____ Block # _____
State /_____/ or Outer Continental Shelf ☐

2. Location of system involved (*check all that apply*)
   ☐ Operator's Property
   ☒ Pipeline Right of Way
   ☐ High Consequence Area (HCA)?
   Describe HCA_____

3. Part of system involved in accident
   ◡ Above Ground Storage Tank
   ◡ Cavern or other below ground storage facility
   ◡ Pump/meter station; terminal/tank farm piping and equipment, including sumps
   ◡ Other *Specify:* _____
   ● Onshore **pipeline**, including valve sites
   ◡ Offshore **pipeline**, including platforms

*If failure occurred on **Pipeline**, complete items a - g:*

4. Failure occurred on
   ◡ Body of Pipe ● Pipe Seam ◡ Scraper Trap
   ◡ Pump ◡ Sump ◡ Joint
   ◡ Component ◡ Valve ◡ Metering Facility
   ◡ Repair Sleeve ◡ Welded Fitting ◡ Bolted Fitting
   ◡ Girth Weld
   ◡ Other *(specify)* _____

Year the component that failed was installed: /1961/

5. Maximum operating pressure *(MOP)*
   a. Estimated pressure at point and time of accident: 1405 *PSIG*
   b. MOP at time of accident: 1448 *PSIG*
   c. Did an overpressurization occur relating to the accident? ◡ Yes ● No

a. Type of leak or rupture
   ◡ Leak: ◡ Pinhole ◡ Connection Failure *(complete sec. H5)*
   ◡ Puncture, diameter *(inches)* _____
   ● Rupture: ◡ Circumferential – Separation
   ● Longitudinal – Tear/Crack, length *(inches)* 636
   Propagation Length, total, both sides *(feet)* 53
   ◡ N/A
   ◡ Other _____

b. Type of block valve used for isolation of immediate section:
Upstream: ☐ Manual ☐ Automatic ☒ Remote Control ☐ Check Valve
Downstream: ☐ Manual ☐ Automatic ☒ Remote Control ☐ Check Valve

c. Length of segment isolated 63360 ft
d. Distance between valves 63360 ft
e. Is segment configured for internal inspection tools? ● Yes ◡ No
f. Had there been an in-line inspection device run at the point of failure? ● Yes ◡ No ◡ Don't Know
   ◡ Not Possible due to physical constraints in the system
g. If *Yes*, type of device run *(check all that apply)*

| | | |
|---|---|---|
| ☒ High Resolution Magnetic Flux tool | Year run: | 2006 |
| ☐ Low Resolution Magnetic Flux tool | Year run: | |
| ☒ UT tool | Year run: | 2005 |
| ☒ Geometry tool | Year run: | 2006 |
| ☐ Caliper tool | Year run: | |
| ☐ Crack tool | Year run: | |
| ☐ Hard Spot tool | Year run: | |
| ☐ Other tool | Year run: | |

## PART D – MATERIAL SPECIFICATION

1. Nominal pipe size *(NPS)* /12/ in.
2. Wall thickness /.25/ in.
3. Specification API 5L SMYS /52000/
4. Seam type ERW
5. Valve type _____
6. Manufactured by LONE STAR in year /1961/

## PART E – ENVIRONMENT

1. Area of accident
   ◡ In open ditch
   ◡ Under pavement
   ◡ Above ground
   ● Underground
   ◡ Under water
   ◡ Inside/under building
   ◡ Other _____

2. Depth of cover: 41 inches

## PART F – CONSEQUENCES

**1. Consequences *(check and complete all that apply)***

| a. | Fatalities | Injuries |
|---|---|---|
| Number of operator employees: | 0 | 0 |
| Contractor employees working for operator: | 0 | 0 |
| General public: | 2 | 7 |
| **Totals:** | 2 | 7 |

b. Was pipeline/segment shutdown due to leak? ● Yes ◡ No
If Yes, how long? 10 days 19 hours 0 minutes

c. Product ignited ● Yes ◡ No d. Explosion ● Yes ◡ No
e. ☒ Evacuation *(general public only)* /200/ people
Reason for Evacuation:
◡ Precautionary by company
● Evacuation required or initiated by public official

f. Elapsed time until area was made safe:
/48/ hr. /_____/ min.

**2. Environmental Impact**

a. Wildlife Impact: Fish/aquatic ◡ Yes ● No; Birds ◡ Yes ● No; Terrestrial ◡ Yes ● No
b. Soil Contamination ◡ Yes ● No
If Yes, estimated number of cubic yards: _____
c. Long term impact assessment performed: ● Yes ◡ No
d. Anticipated remediation ● Yes ◡ No
If Yes, check all that apply: ☐ Surface water ☐ Groundwater ☒ Soil ☒ Vegetation ☐ Wildlife

e. Water Contamination: ◡ Yes ● No (*If Yes, provide the following*)
Amount in water _____ barrels
Ocean/Seawater ◡ No ◡ Yes
Surface ◡ No ◡ Yes
Groundwater ◡ No ◡ Yes
Drinking water ◡ No ◡ Yes (*If Yes, check below.*)
◡ Private well ◡ Public water intake





***OPS Data Facsimile***

**PART G – LEAK DETECTION INFORMATION**

1. Computer based leak detection capability in place? ○Yes ●No

2. Was the release initially detected by? (check one):
○ CPM/SCADA-based system with leak detection
○ Static shut-in test or other pressure or leak test
○ Local operating personnel, procedures or equipment
● Remote operating personnel, including controllers
○ Air patrol or ground surveillance
○ A third party ○Other (specify) _____

3. Estimated leak duration days ____ hours ____

**PART H – APPARENT CAUSE**

***Important:*** *There are 25 numbered causes in this Part H. Check the box corresponding to the primary cause of the accident. Check one circle in each of the supplemental categories corresponding to the cause you indicate. See the instructions for guidance.*

**H1 – CORROSION**

1. ○External Corrosion

2. ○Internal Corrosion

(Complete items a – e where applicable.)

a. Pipe Coating
○Bare
○Coated

b. Visual Examination
○Localized Pitting
○General Corrosion
○Other _____

c. Cause of Corrosion
○Galvanic ○Atmospheric
○Stray Current ○Microbiological
○Cathodic Protection Disrupted
○Stress Corrosion Cracking
○Selective Seam Corrosion
○Other _____

d. Was corroded part of pipeline considered to be under cathodic protection prior to discovering accident?
○No ○Yes, Year Protection Started: /_____/

e. Was pipe previously damaged in the area of corrosion?
○No ○Yes => Estimated time prior to accident: /_____/ *years* /_____/ *months* *Unknown* ☐

**H2 – NATURAL FORCES**

3. ○ Earth Movement => ○Earthquake ○ Subsidence ○ Landslide ○Other _____
4. ○ Lightning
5. ○ Heavy Rains/Floods => ○ Washouts ○ Flotation ○ Mudslide ○Scouring ○ Other _____
6. ○ Temperature => ○Thermal stress ○ Frost heave ○ Frozen components ○Other _____
7. ○ High Winds

**H3 – EXCAVATION DAMAGE**

8. ○ Operator Excavation Damage (including their contractors/Not Third Party)
9. ○ Third Party *(complete a-f)*

a. Excavator group
○ General Public ○ Government ○Excavator other than Operator/subcontractor

b. Type: ○Road Work ○Pipeline ○Water ○Electric ○Sewer ○Phone/Cable
○Landowner-not farming related ○Farming ○Railroad
○Other liquid or gas transmission pipeline operator or their contractor
○Nautical Operations ○Other _____

c. Excavation was: ○Open Trench ○ Sub-strata (boring, directional drilling, etc…)

d. Excavation was an ongoing activity (Month or longer) ○Yes ○No If Yes, Date of last contact /_____/

e. Did operator get prior notification of excavation activity?

○ Yes; Date received: /_____/ mo. /_____/ day /_____/ yr. ○No

Notification received from: ○One Call System ○ Excavator ○Contractor ○Landowner

f. Was pipeline marked as result of location request for excavation? ○ No ○Yes *(If Yes, check applicable items i - iv)*
i. Temporary markings: ○ Flags ○Stakes ○Paint
ii. Permanent markings: ○
iii. Marks were (check one) : ○ Accurate ○ Not Accurate
iv. Were marks made within required time? ○Yes ○No

**H4 – OTHER OUTSIDE FORCE DAMAGE**

10. ○ Fire/Explosion as primary cause of failure => Fire/Explosion cause: ○Man made ○Natural
11. ○ Car, truck or other vehicle not relating to excavation activity damaging pipe
12. ○ Rupture of Previously Damaged Pipe
13. ○ Vandalism

**H5 – MATERIAL AND/OR WELD FAILURES**

**Material**

14. ○ Body of Pipe => ○ Dent ○ Gouge ○ Bend ○ Arc Burn ○ Other _____

15. ○ Component => ○ Valve ○ Fitting ○ Vessel ○ Extruded Outlet ○ Other _____

16. ○ Joint => ○ Gasket ○ O-Ring ○ Threads ○ Other _____

**Weld**

17. ○ Butt => ○ Pipe ○ Fabrication ○ Other _____

18. ○ Fillet => ○ Branch ○ Hot Tap ○ Fitting ○ Repair Sleeve ○ Other _____

19. ○ Pipe Seam => ○ LF ERW ○ DSAW ○ Seamless ○ Flash Weld ○ HF ERW ○ SAW ○ Spiral ○ Other _____

*Complete a-g if you indicate **any** cause in part H5.*

a. Type of failure:
○ Construction Defect => ○ Poor Workmanship ○ Procedure not followed ○ Poor Construction Procedures ○ Material Defect

b. Was failure due to pipe damage sustained in transportation to the construction or fabrication site? ○ Yes ○ No

c. Was part which leaked pressure tested before accident occurred? ○ Yes, *complete d-g* ○ No

d. Date of test: /_____/ yr. /_____/ mo. /_____/ day

e. Test medium: ○ Water ○ Inert Gas ○ Other _____

f. Time held at test pressure: /_____/ hr.

g. Estimated test pressure at point of accident: _____ *PSIG*

**H6 – EQUIPMENT**

20. ○ Malfunction of Control/Relief Equipment => ○ Control valve ○ Instrumentation ○ SCADA ○ Communications ○ Block valve ○ Relief valve ○ Power failure ○ Other _____

21. ○ Threads Stripped, Broken Pipe Coupling => ○ Nipples ○ Valve Threads ○ Dresser Couplings ○ Other _____

22. ○ Seal Failure => ○ Gasket ○ O-Ring ○ Seal/Pump Packing ○ Other _____

**H7 – INCORRECT OPERATION**

23. ○ Incorrect Operation

a. Type: ○ Inadequate Procedures ○ Inadequate Safety Practices ○ Failure to Follow Procedures ○ Other _____

b. Number of employees involved who failed a post-accident test: drug test: /_____/ alcohol test /_____/

**H8 – OTHER**

24. ○ Miscellaneous, *describe:* _____

25. ● Unknown
○ Investigation Complete ● Still Under Investigation *(submit a supplemental report when investigation is complete)*

**PART I – NARRATIVE DESCRIPTION OF FACTORS CONTRIBUTING TO THE EVENT** *(Attach additional sheets as necessary)*

**ADDITIONAL FOLLOW-UP CALL WAS MADE TO THE NRC TO REVISE THE RELEASE VOLUME - NRC # 853579.**

**RELEASE INVESTIGATION IS ONGOING.**